

### Sheet 1 of 10

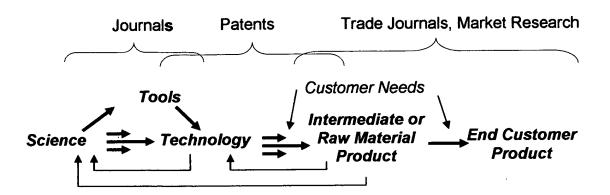


Fig. 1



## Sheet 2 of 10

Select a set from all US patents for analysis	
<b>↓</b>	
Determine the type of analysis needed: manual or automated.	
<b>↓</b>	
Parse the selected patent set into patent sections in a spreadsheet or database	
compatible format.	
<b>→</b>	
Identify keyword themes within a patent by analyzing the vocabulary in a patent	
abstract.	
<b>→</b>	
Change the form of the key analysis words so that all words are the same tense.	
<b>→</b>	
Sort the list by frequency of occurrence, and remove words that occur only once.	
•	
Form a word correlation matrix to identify frequent word pair themes.	
<b>→</b>	
Identify word pair groups that form technology topics.	
Technology topics are potentially composed of multiple word pairs.	
<b>↓</b>	
Connect a patent with a word pair theme and/or a technology topic.	
<b>→</b>	
Form a picture of the technology topic evolution base on the patent set initially	
selected.	
<b>→</b>	
Selectively highlight the technology topic evolution picture in order to identify	
patterns of development.	İ
<b>V</b>	,
Identify patterns useful in technology evaluation, investment and R&D decisions.	

Fig. 2



## Sheet 7 of 10

Fig. 7a

Patenting Statistics: An Indicator of Technology Status

Pattern	Biotechnology	Laundry Detergent	Cosmetics/Perfume	Wells, Drilling
Abstract	13	0	6	1
Book	74	10	10	8
Brochure	7	17	12	2
Government	2	0	1	0
Journal	650	9	80	23
Newspaper	60	. 0	0	0
Other	4	17	0	0
Patent	1	9	1	3
TOTAL	811	62	110	37
Number of Patents	13	10	11	11
Journal Refs/Patent	62.4	6.2	10	3.4

Categorization & Identification Accuracy				
Run 2	Category	Ref.		
ОК	99.12%	98.25%		

Fig. 7b



## Sheet 8 of 10

# Patent Class Statistics

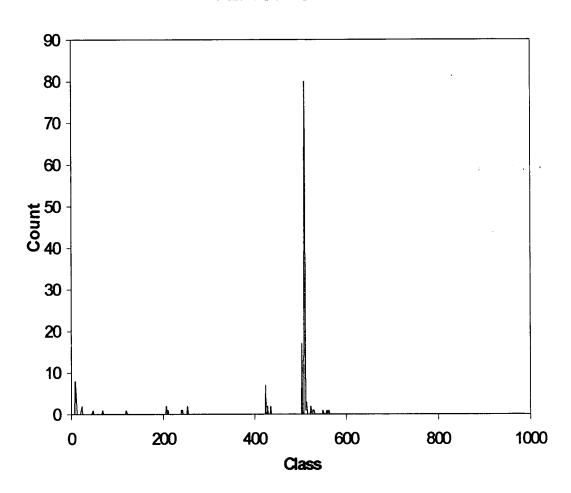


Fig. 8